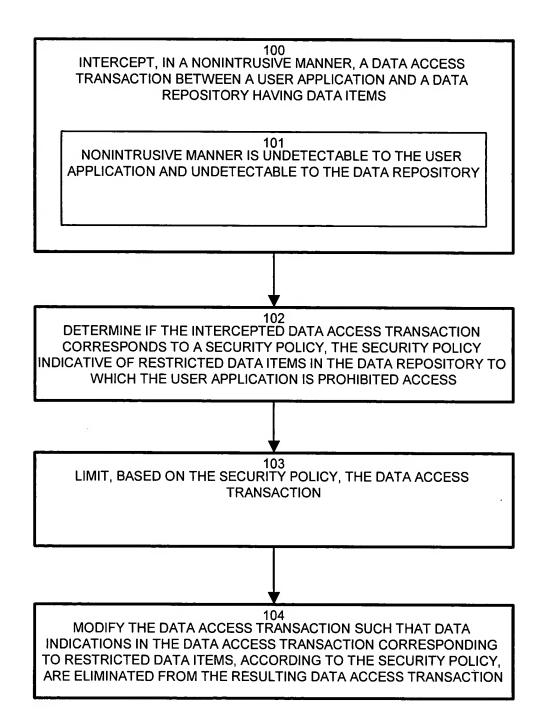
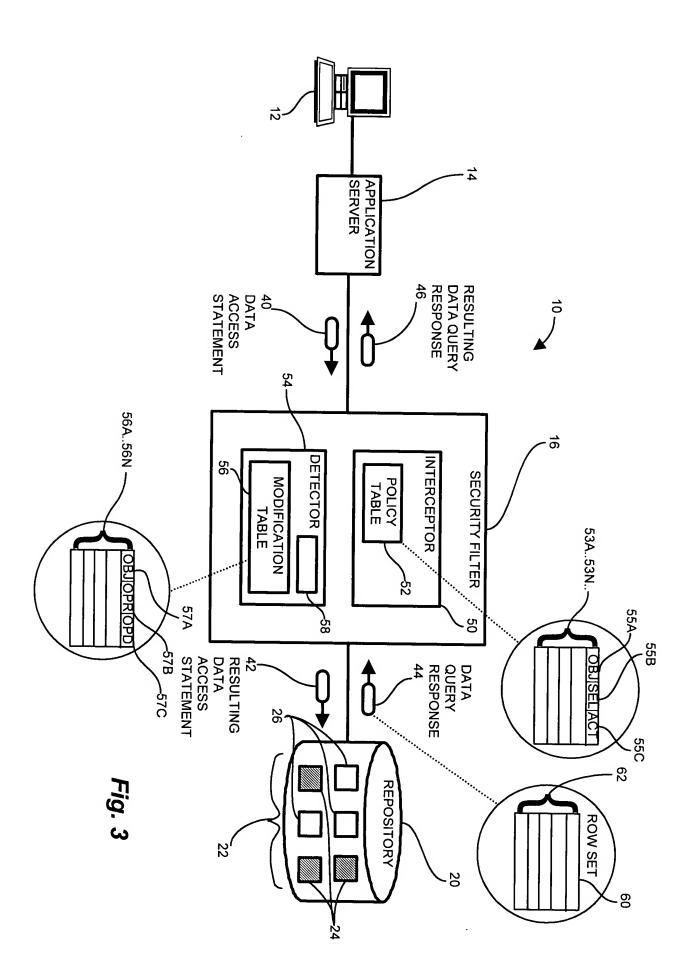
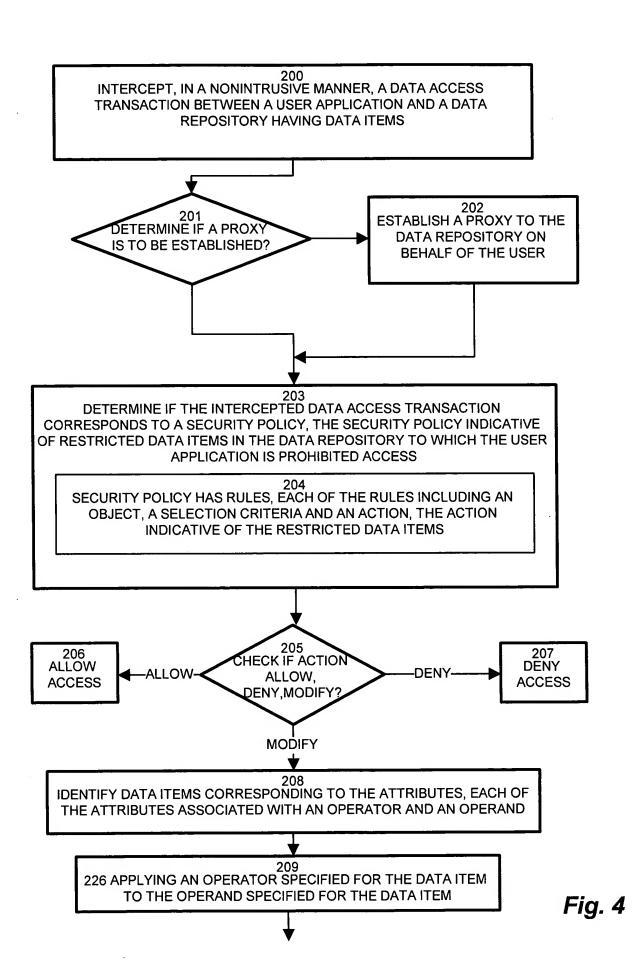


⁻ig. 1







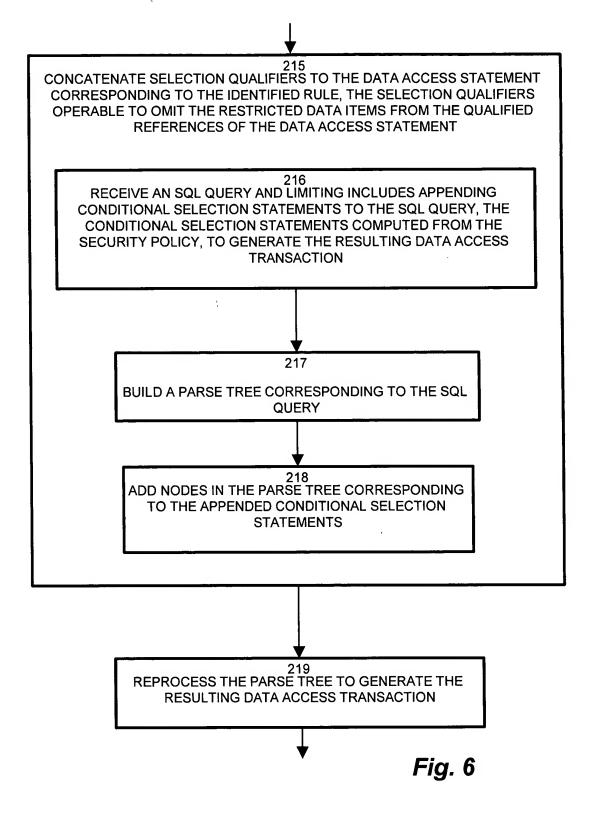


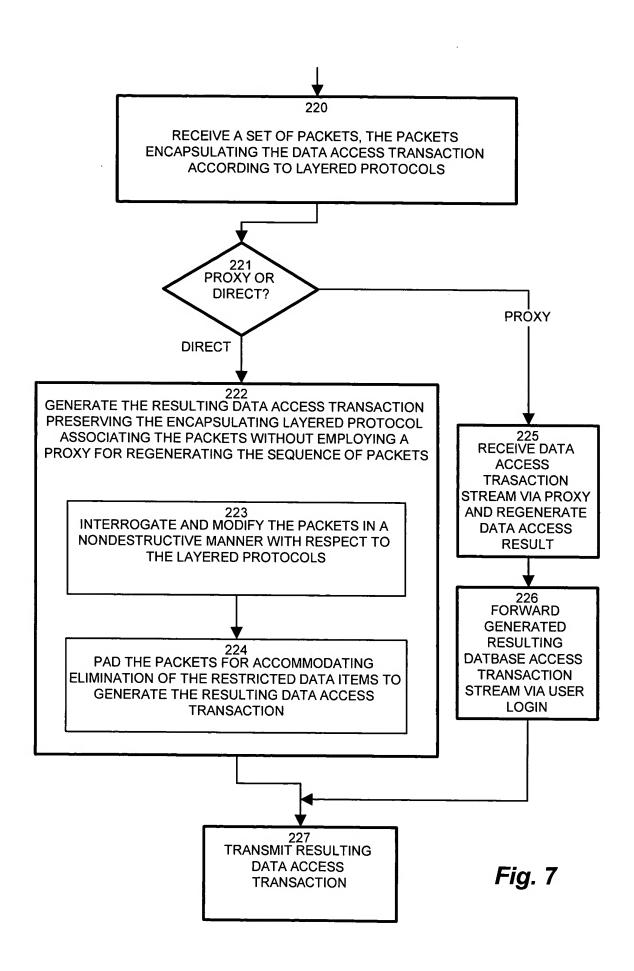
LIMIT, BASED ON THE SECURITY POLICY, THE DATA ACCESS TRANSACTION

MODIFY THE DATA ACCESS TRANSACTION SUCH THAT DATA INDICATIONS IN THE DATA ACCESS TRANSACTION CORRESPONDING TO RESTRICTED DATA ITEMS, ACCORDING TO THE SECURITY POLICY, ARE ELIMINATED FROM THE RESULTING DATA ACCESS TRANSACTION

DATA INDICATIONS ARE REFERENCES TO DATA ITEMS IN THE DATA REPOSITORY AND LIMITING FURTHER INCLUDES QUALIFYING THE REFERENCES TO GENERATE A MODIFIED REQUEST INDICATIVE OF UNRESTRICTED DATA ITEMS, SUCH THAT SUCCESSIVE RETRIEVAL OPERATIONS EMPLOYING THE QUALIFIED REFERENCES DO NOT RETRIEVE RESTRICTED DATA ITEMS

DATA ACCESS TRANSACTION IS A DATA ACCESS STATEMENT AND LIMITING FURTHER COMPRISES IDENTIFYING AT LEAST ONE RULE, ACCORDING TO THE SECURITY POLICY, CORRESPONDING TO THE DATA ACCESS STATEMENT, THE IDENTIFIED RULE RESTRICTING ACCESS TO AT LEAST ONE OF THE DATA ITEMS INDICATED BY THE DATA ACCESS STATEMENT





300

INTERCEPT IN A NONINTRUSIVE MANNER, A DATA ACCESS TRANSACTION BETWEEN A USER APPLICATION AND A DATA REPOSITORY HAVING DATA ITEMS

301 ESTABLISH A PROXY TO THE DATA REPOSITORY ON BEHALF OF THE USER

302 RECEIVE THE DATA ACCESS TRANSACTION AS A ROW SET UNDER THE PROXY

303 REGENERATE THE RESULTING DATA ACCESS TRANSACTION AS A REDUCED ROW SET HAVING A SUBSET OF THE ROWS FROM THE PROXY ROW SET

304

DETERMINE IF THE INTERCEPTED DATA ACCESS TRANSACTION CORRESPONDS TO A SECURITY POLICY, THE SECURITY POLICY INDICATIVE OF RESTRICTED DATA ITEMS IN THE DATA REPOSITORY TO WHICH THE USER APPLICATION IS PROHIBITED ACCESS

305

SECURITY POLICY HAS RULES, EACH OF THE RULES INCLUDING AN OBJECT, A SELECTION CRITERIA AND AN ACTION, THE ACTION INDICATIVE OF THE RESTRICTED DATA ITEMS

306

ACTIONS ARE SELECTIVELY INDICATIVE OF MODIFICATIONS, THE MODIFICATIONS FURTHER COMPRISING ATTRIBUTES, OPERATORS, AND OPERANDS, THE LIMITING FURTHER COMPRISING

IDENTIFYING DATA ITEMS CORRESPONDING TO THE ATTRIBUTES, EACH OF THE ATTRIBUTES ASSOCIATED WITH AN OPERATOR AND AN OPERAND

